Abstract of the Disclosure

An apparatus and method to encrypt data having hierarchical information are provided. The apparatus includes an N-th layer key generator, which generates an N-th layer key, an (N+1)-th layer key generator, which generates an (N+1)-th layer key by applying the N-th layer key to a predetermined function, an N-th layer data encryptor, which encrypts N-th layer data using the N-th layer key, and an (N+1)-th layer data encryptor, which encrypts (N+1)-th layer data using the (N+1)-th layer key.